

## ASSIGNMENT 4

Textbook Assignment: "Navy Aircrew Common Ejection Seat (NACES)," chapter 5, pages 5-1 through 5-38.

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- 4-1. What configuration is used in the NACES system to meet the exact requirements of the crew station designer?
1. Reversible
  2. Flexible
  3. Standard
  4. State-of-the-art
- 4-2. What does the acronym NACES mean?
1. Navy Aircraft Ejection Seat
  2. Navy Aircrew Common Ejection Seat
  3. Naval Aircrew Escape System
  4. Naval Automatic Control Escape System
- 4-3. What type ejection seat is used in the F/A-18C aircraft?
1. SJU-17(V) 1/A
  2. SJU-17(V) 2/A
  3. SJU-17(V) 3/A
  4. SJU-17(V) 4/A
- 4-4. The NACES may be used in either the F/A-18C/D, F-14A or A-6E aircraft?
1. True
  2. False
- 4-5. Who is responsible for removing and installing the ejection control handle safety pin prior to and after flight?
1. Plane captain only
  2. Aircrew only
  3. Plane captain prior to and aircrew after
  4. Aircrew prior to and plane captain after
- 4-6. The SJU-17(V)1/A ejection seat provides escape capabilities within which of the following parameters?
1. All altitudes and airspeeds
  2. A maximum of 600 knots speed and 50,000 feet altitude
  3. Zero altitude and zero airspeed
  4. Both 2 and 3 above
- 4-7. What is the primary purpose of the barostatic release unit?
1. To act as a backup in the event of electronic sequencer failure
  2. To release the occupant from the seat
  3. To release the personal parachute at a determined altitude
  4. To provide automatic operation of the emergency restraint release

- 4-8. After seat ejection, the seat is stabilized and the forward speed is retarded by what component(s)?
1. Personal parachute
  2. Drogue parachute
  3. Bridle system
  4. Both 2 and 3 above
- 4-9. What component automatically controls drogue deployment, seat/man separation, and parachute deployment after ejection?
1. Barostatic release unit
  2. Time release mechanism
  3. Drogue/bridle release system
  4. Multimode electronic sequencer
- 4-10. The NACES consists of what total number of main assemblies?
1. Six
  2. Five
  3. Three
  4. Four
- 4-11. What is the primary purpose of the catapult assembly?
1. To jettison the seat from the aircraft
  2. To provide initial power for seat ejection
  3. To secure the seat to the aircraft structure
  4. Both 2 and 3 above
- 4-12. The seat bucket assembly consists of the underseat rocket motor, lateral thrust motor, leg restraint snubbers, two pitot assemblies, shoulder harness control lever, and pin puller.
1. True
  2. False
- 4-13. When the ejection seat is installed in the aircraft, what component locks it to the catapult?
1. Upper right main beam
  2. Upper left main beam
  3. Top latch plunger
  4. Barostatic release unit
- 4-14. What barrels make up the catapult ejection gun?
1. Inner, outer only
  2. Inner, intermediate only
  3. Intermediate, outer only
  4. Inner, intermediate, outer
- 4-15. What crossbeam takes the full thrust of the catapult during ejection?
1. Top crossbeam
  2. Center crossbeam
  3. Bottom crossbeam
- 4-16. What services do the seat bucket slippers provide?
1. Attachment points for the seatbucket to the mainbeam
  2. Damping out lateral movement
  3. Smooth movement of the seat bucket
- 4-17. What total number of slippers are attached to the guide rails of the mainbeam assembly?
1. Five
  2. Six
  3. Three
  4. Four
- 4-18. What handle is located on the left side of the seat bucket?
1. Safe/arm control
  2. Seat height adjustment
  3. Shoulder harness control
  4. Manual override

- 4-19. What component on the NACES protects the occupant in the event of rapid forward deceleration?
1. Static lanyard
  2. Spring loaded withdrawal plunger
  3. Shoulder harness reel
  4. Shoulder harness strap quadrant
- 4-20. Which of the following is a characteristic of the PRDM?
1. Has a cylindrical body
  2. Has a gas operated secondary cartridge
  3. Is a sealed unit
  4. Each of the above
- 4-21. The PRDM primary cartridge is fired by what means?
1. Mechanically
  2. Ballistically
  3. Electrically
  4. Gas
- 4-22. The PRDM can be initiated by which of the following means?
1. Electronic sequencer
  2. Manual override system
  3. Restraint release unit
  4. Each of the above
- 4-23. The parachute withdrawal line is attached to the PDRM by what means?
1. By scissor mechanism
  2. By a bolt and lock nut
  3. By a sliding stirrup
  4. By a spring-loaded quick release pin
- 4-24. The electronic sequencer is mounted on the NACES at what point?
1. Across the mainbeam assembly behind the seat bucket
  2. Across the mainbeam assembly above the main parachute
  3. Across the mainbeam assembly below the main parachute
  4. Across the mainbeam assembly's lower aft end
- 4-25. Upon activation, the electronic sequencer determines the mode of ejection and supplies power to the start switches?
1. True
  2. False
- 4-26. Which of the following is a function of the barostatic release unit impulse cartridge?
1. Provides the necessary gas for the restraint release assembly
  2. Provides the necessary gas pressure to retract the capsule peg
  3. Provides the necessary gas to prevent mechanical initiation
- 4-27. What component of the barostat assembly prevents the delay mechanism from operating at altitudes in excess of barostat ratings?
1. Quick release pin
  2. Bellows device unit
  3. Peg engagement mechanism
  4. Diaphragm assembly

- 4-28. What action or component supplies the power source to fire the drogue deployment catapult cartridge?
1. Retraction of the capsule peg
  2. Gas pressure from the primary initiators
  3. The delay mechanism firing pin
  4. The electrical inputs from the electronic sequencer
- 4-29. What is the primary function of the drogue deployment catapult?
1. To stabilize the ejection seat
  2. To rapidly deploy the drogue and bridle assembly
  3. To prevent parachute entanglement
  4. To ensure a rapid escape from the ejection seat
- 4-30. Which of the following is a characteristic of the drogue deployment catapult assembly?
1. Contains a two-piece telescope piston
  2. Contains an enlarged upper end
  3. Is fitted with a drogue and canister
  4. Each of the above
- 4-31. The drogue deployment catapult is mounted in what location on the ejection seat?
1. Aft RH aide of the seat structure
  2. Aft LH side of the upper cross beam
  3. Outboard of the LH lower cross beam
  4. Outboard of the RH main beam
- 4-32. What size drogue chute is used in the NACES?
1. 1.45 mm
  2. 2.10 mm
  3. 2.50 mm
  4. 8.25 mm
- 4-33. During the ejection sequence, what component(s) supplies the gas pressure to operate the barostatic release unit delay mechanism?
1. Primary initiators
  2. Multipurpose initiators
  3. Start switch assemblies
  4. Electronic sequencer
- 4-34. Which of the following components houses the start switches?
1. Multipurpose initiator
  2. Static lanyard assembly
  3. Electronic sequencer
- 4-35. During ejection, the start switches provides what action?
1. Battery power
  2. Initiation set-up
  3. Start signal to the electronic sequencer
  4. Time-delay start time
- 4-36. What is the primary purpose of the pitot assemblies?
1. To supply pressure to the start switches for ejection
  2. To supply dynamic pressure inputs to the electronic sequencer
  3. To supply static base pressure to the electronic sequencer
- 4-37. Which of the following components receives gas pressure from the upper face of the RH ballistic manifold?
1. Shoulder harness reel
  2. Parachute deployment rocket motor
  3. Upper drogue bridle release
  4. Each of the above

- 4-38. What total number of ballistic manifolds is/are installed on the NACES seat?
1. One
  2. Two
  3. Three
  4. Four
- 4-39. What item or action secures the pitot arms in the stowed or deployed positions?
1. Release piston
  2. Locking plunger
  3. Quick release pin
  4. Static gas pressure
- 4-40. What total number of connectors is/are present on the upper face of the LH ballistic manifold?
1. One
  2. Two
  3. Three
  4. Four
- 4-41. What is the primary purpose of the thermal batteries?
1. To supply power for seat operation
  2. To supply backup power for sequencer operation
  3. To supply initial power for sequencer operation
  4. To supply initial power for the seawars
- 4-42. Thermal batteries are mounted in each of the main beam assemblies?
1. True
  2. False
- 4-43. What total number of propellant tubes make up the underseat rocket motor?
1. Ten
  2. Thirteen
  3. Fifteen
  4. Seventeen
- 4-44. What is the purpose of the lateral thrust motor?
1. Serves the same purpose as the underseat rocket motor
  2. To provide additional boost to underseat rocket motor
  3. Permits a divergent trajectory to the ejected seat
- 4-45. When the safe/arm handle is in the safe position, the pilot sees the handle as what color(s)?
1. Yellow
  2. Black and yellow
  3. White
  4. Red
- 4-46. What total number of connectors are on the lower face of the RH ballistic manifold assembly?
1. Five
  2. Two
  3. Three
  4. Four
- 4-47. Forward movement of the leg restraints is prevented by what component?
1. Seat bucket snubbers
  2. Leg restraint locks
  3. Leg restraint snubbers
  4. Leg restraint control lever

- 4-48. What component restricts the operation of the manual override handle when the seat is installed in the aircraft?
1. Safety pin
  2. Thumb button
  3. Pin puller
  4. Safe/arm handle
- 4-49. Operation of the manual override handle simultaneously operates the safe/arm handle to the safe position?
1. True
  2. False
- 4-50. During ejection, what component(s) provides the gas pressure to operate the pin puller?
1. The right hand seat initiator only
  2. The left hand seat initiator only
  3. Both 1 and 2 above
- 4-51. Which of the following component(s) are part of the lower harness release mechanism?
1. Leg restraint line locks
  2. Negative-g strap locks
  3. Lower harness locks
  4. Each of the above
- 4-52. The parachute container houses which of the following parachute?
1. Controller drogue
  2. Main drogue
  3. Personnel and ribbon drogue
- 4-53. In the NACES, what type drogue is attached to the parachute crown bridle apex?
1. 1.5m main
  2. 1.5m personnel
  3. 1.5m ribbon
  4. 1.5m controller
- 4-54. What force actuates the firing pin in the catapult firing mechanism?
1. Ballistic gas
  2. Mechanical
  3. Electrical inputs
- 4-55. What maximum number of inches of travel is required before the piston head shears the three dowel screws in the guide bushing?
1. 38
  2. 42
  3. 60
  4. 72
- 4-56. During ejection sequence, gas pressure from what cartridge is used to operate the shoulder harness release cartridge?
1. Multipurpose initiator
  2. Shoulder harness impulse cartridge
  3. Left hand seat initiator
  4. Right hand seat initiator
- 4-57. Which of the following forces causes the secondary cartridge to face fire the parachute deployment rocket motor in the event of sequencer failure?
1. Ballistic gas from the harness release unit cartridge
  2. Ballistic gas from the emergency restraint release cartridge
  3. Both 1 and 2 above
  4. Ballistic gas from the multipurpose initiator cartridge
- 4-58. After ejection has been initiated, what source supplies the electronic sequencer with electrical power?
1. A single on-board thermal battery
  2. Two on-board thermal batteries
  3. Internal aircraft power
  4. Start switches

- 4-59. What source activates the multipurpose initiators upon ejection?
1. Ballistic gas pressure from primary initiators
  2. Ballistic gas pressure from thermal batteries
  3. Two pyrotechnic cartridges, after 42 inches of travel
  4. Electronic sequencer, 120 milliseconds after activation
- 4-60. In the absence of a start switch signal, the electronic sequencer takes what action?
1. It continues in the "wait" mode
  2. It activates automatically after approximately 200 milliseconds
  3. It initiates the underseat rocket motor
  4. It activates the start switch
- 4-61. What is the total burn time of the underseat rocket motor?
1. 200 milliseconds
  2. 220 milliseconds
  3. 250 milliseconds
  4. 2 seconds
- 4-62. Which of the following is/are the critical actions for an electronic sequencer?
1. Sensing the seats altitude and airspeed
  2. Choosing the appropriate timings from a set of available sequences
  3. Both 1 and 2 above
  4. Providing initial start-up from the thermal batteries
- 4-63. Speed and altitude are measured from the sequencer by what three types of sensors?
1. Pitot pressure, altitude, airspeed
  2. Pitot pressure, altitude, base pressure,
  3. Pitot pressure, base pressure, accelerometer
  4. Altitude, airspeed, attitude
- 4-64. What total number of shielded cables are used to transmit electrical signals to and from the electronic sequencer?
1. Six
  2. Seven
  3. Eight
  4. Nine
- 4-65. What is the total number of operational ejection modes of the NACES?
1. Five
  2. Seven
  3. Three
  4. Nine

IN COMPLETING ITEMS 4-66 THROUGH 4-70, SELECT FROM COLUMN B THE AIRSPEED AND ALTITUDE INFORMATION THAT APPLIES TO THE MODE OF OPERATION IN COLUMN A. ITEMS IN COLUMN B MAY BE USED MORE THAN ONCE.

<u>A. Modes</u>		<u>B. Airspeeds/ Altitudes</u>
4-66.	Mode 1	1. Airspeed above 500 knots and altitude below 8,000 feet
4-67.	Mode 2	
4-68.	Mode 3	2. Altitude above 18,000 feet
4-69.	Mode 4	
4-70.	Mode 5	3. Altitude between 8,000 and 18,000 feet
		4. Airspeed below 350 knots and altitude below 8,000 feet
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4-71.	During the ejection sequence, the PDRM fires and withdraws the parachute in its bag.	
	1. True	
	2. False	

- 4-72. During ejection and shortly after the parachute starts to deploy, what parachute part is jettisoned to avoid entanglement and allow a clean seat/man separation?

1. Parachute extractor
2. Drogue bridle
3. Drogue chute
4. Stabilizer chute
- 4-73. What seat survival kit is used with the NACES?

1. SKU-7/A
2. SKU-8/A
3. RSSK-7
4. RSSK-8
- 4-74. At what time during ejection will electronic sequencer timing begin?

1. When the ejection control handle is pulled
2. After approximately five inches of seat upward travel
3. Immediately after seat ejection
4. When the start switches close
- 4-75. What NAVAIR manual should be used to order repairable/nonrepairable parts for the NACES?

1. A1-F18AE-44
2. 01-F18AE-4-1
3. 01-13-1-36
4. 13-1-36





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Under authority of Title 5, USC 301, information regarding your military status is requested to assist in processing your comments and prepare a reply. This information will not be divulged, without written authorization, to anyone other than those within DOD for official use in determining performance.

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## STUDENT COMMENT SHEET

THIS FORM MAY BE USED TO SUGGEST IMPROVEMENTS, REPORT COURSE ERRORS, OR TO REQUEST HELP IF YOU HAVE DIFFICULTY COMPLETING THE COURSE.

FROM: \_\_\_\_\_ Date \_\_\_\_\_  
SSN \_\_\_\_\_  
NAME (Last, first, M.I.)  
RANK, RATE, CIVILIAN  
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STREET ADDRESS, APT #  
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CITY, STATE ZIP CODE \_\_\_\_\_  
To: COMMANDING OFFICER  
NETPMSA CODE 0315  
6490 SAUFLEY FIELD RD  
PENSACOLA FL 32509-5237

Subj: NRTC AVIATION STRUCTURAL MECHANIC E 1 & C, NAVEDTRA 82318

1. The following comments are hereby submitted:

## PRIVACY ACT STATEMENT

Under authority of Title 5, USC 301, information regarding your military status is requested to assist in processing your comments and prepare a reply. This information will not be divulged, without written authorization, to anyone other than those within DOD for official use in determining performance.

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DEPARTMENT OF THE NAVY

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DESIGNATOR \_\_\_\_\_ ASSIGNMENT NO. \_\_\_\_\_

☐ USN ☐ USNR ☐ ACTIVE ☐ INACTIVE OTHER (Specify) \_\_\_\_\_ DATE MAILED \_\_\_\_\_

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